



## Product Specification

**Chemical Name:** Pentaammine(dinitrogen)osmium(II) chloride

**CMI Product Code:** 4010

**CAS Number:** 20611-50-1

**Formula:**  $[\text{Os}(\text{N}_2)(\text{NH}_3)_5]\text{Cl}_2$

**Formula Weight:** 374.30 g/mol

**Theoretical Os%:** 50.82%

<b>PARAMETER</b>	<b>SPECIFICATION</b>
<b>Os Assay</b>	50.82 ± 1.0%
<b>Chemical Purity</b>	≥ 98% (based on Os assay)
<b>Microanalysis</b>	Nitrogen: 26.19 ± 0.60%
<b>Infrared Spectrum</b>	Conforms to structure
<b>Appearance</b>	Solid powder or crystals
<b>Storage</b>	Store under inert gas in a tightly sealed container in a cool dry location.

**Reviewing Chemist:** Dr. Bryan Frauhiger, Ph.D., Organometallic Technical Director: BEF

**Specification Approval:** Dr. Ernest Addo, Ph.D., Director of Quality & Analytical Testing: EA

**Specification Revision Date:** October 8<sup>th</sup>, 2016

**Revision Level:** 0

Colonial Metals warrants, that at the time of product release this product conformed to the information contained on this specification sheet. Purchaser must determine the suitability of the product for its particular use.